

**ABSTRACT**

A value of a function useful for mapping values from one color space to another includes establishing a three-dimensional lattice. The function has known values at the lattice points. Values of the function for a subset of the lattice points are recorded. A value of the function for a given lattice point is established by returning a weighted average of the values of at least one of four known value lattice points defining a tetrahedron touching or enclosing a given lattice point. The lattice points that are intermediate points in a coarse lattice cube are either within or on the boundary of at least one tetrahedron whose vertices are the four vertices of a cube.